HAND1 cDNA

Catalog Number: ATGD0017

PRODUCT INFORMATION

Catalog number
ATGD0017

Product type
cDNA

Species
Human

NCBI Accession No.
NP_004812.1

Alternative Names
bHLHa27, eHand, Hxt, Thing1

mRNA Refseq
NM_004821.2

OMIM
602406

Chromosome location
5q33

PRODUCT SPECIFICATION

Formulation
Lyophilized

Storage
Store the plasmid at -20C.

cDNA Size
648bp

Preparation before usage
1. Centrifuge at 7000rpm for 1 minute.
2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA.
Each tube contains approximately 10ug of lyophilized plasmid.

Vector description
This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

Cloning Vector
pATGen (puc19-derived cloning vector)

General Description

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HAND1 belongs to the basic helix-loop-helix family of transcription factors. This protein is one of two closely related family members, the HAND proteins, which are asymmetrically expressed in the developing ventricular chambers and play an essential role in cardiac morphogenesis. Working in a complementary fashion, they function in the formation of the right ventricle and aortic arch arteries, implicating them as mediators of congenital heart disease. In addition, it has been suggested that this transcription factor may be required for early trophoblast differentiation

DATA

Sequence nucleotides

ATGAACCTCG TGGGCAGCTA CGCACACCAT CACCACCATC ACCACCCGCA CCCTGCGCAC CCCATGCTCC
ACGAACCCTT CCTCTTCGGT CCGGCCTCGC GCTGTCATCA GGAAAGGCCC TACTTCCAGA GCTGGCTGCT
GAGCCCGGCT GACGCTGCCC CGGACTTCCC TGCGGGCGGG CCGCCGCCCG CGGCCGCTGC AGCCGCCACC
GCCTATGGTC CTGACGCCAG GCCTGGGCAG AGCCCCGGGC GGCTGGAGGC GCTTGGCGGC CGTCTTGGCC
GGCGGAAAGG CTCAGGACCC AAGAAGGAGC GGAGACGCAC TGAGAGCATT AACAGCGCAT TCGCGGAGTT
GCGCGAGTGC ATCCCCAACG TGCCGGCCGA CACCAAGCTC TCCAAGATCA AGACTCTGCG CCTAGCCACC
AGCTACATCG CCTACCTGAT GGACGTGCTG GCCAAGGATG CACAGTCTGG CGATCCCGAG GCCTTCAAGG
CTGAACTCAA GAAGGCGGAT GGCGGCCGTG AGAGCAAGCG GAAAAGGGAG CTGCAGCAGC ACGAAGGTTT
TCCTCCTGCC CTGGGCCCAG TCGAGAAGAG GATTAAAGGA CGCACCGGCT GGCCGCAGCA AGTCTGGGCG
CTGGAGTTAA ACCAGTGA

Transaction Sequence

MNLVGSYAHH HHHHHPHPAH PMLHEPFLFG PASRCHQERP YFQSWLLSPA DAAPDFPAGG PPPAAAAAAT AYGPDARPGQ
SPGRLEALGG RLGRRKGSGP KKERRRTESI NSAFAELREC IPNVPADTKL SKIKTLRLAT SYIAYLMDVL AKDAQSGDPE
AFKAELKKAD GGRESKRKRE LQQHEGFPPA LGPVEKRIKG RTGWPQQVWA LELNQ